

Bridge Inspection Report

NBI Structure Number: 005701730014200

Dalton 173/142

Date of Inspection: 07/25/2024

NH142

Date Report Sent: 10/18/2024

over

Owner: NHDOT

BLACK BROOK

Bridge Inspection Group: A-Team

Bridge Maintenance Crew: 01

Recommended Postings:

Weight: **No Posting Required**

Weight Sign OK

Width: **Not Required**

Width Sign OK

Primary Height Sign Recommendation: *None*

Clearances: Over: 99.99

Height Sign OK

Optional Centerline Height Sign Rec: *None*

(Feet) Under: 0.00

Route: 99.99

Condition:

Red List Status: Not on the Redlist

Deck: 7 Good

Superstructure: 7 Good

Substructure: 7 Good

Culvert: N N/A (NBI)

Sufficiency Rating: 95 %

Bridge Rail: Meets Standards

Rail Transition: Substandard

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Substandard

Structure Type and Materials:

Number of Main Spans: 1

Number of Approach Spans: 0

Main Span Material and Design Type

Concrete/Slab

NH Bridge Type: CS (Concrete Slab)

Deck Type: Concrete-Cast-in-Place

Wearing Surface: Monolithic Concrete

Membrane: None

Deck Protection: None

Curb Reveal: 4 in

Plan Location: H-15

Total Bridge Length: 17.0 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 31.8 ft

Median: No median

Bridge Skew: 0.00 °

Year Built/Rebuilt: 1934

Bridge Dimensions:

Length Maximum Span: 14.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 28.0 ft

Approach Roadway Width: 22.5 ft
(W/Shoulders)

Bridge Inspection Report

NBI Structure Number: 005701730014200

Dalton 173/142

Bridge Service:

Type of Service on Bridge: Highway

Type of Service Under: Waterway

Lanes on Bridge: 2

Lanes Under: 0

AADT: 578

Percent Trucks: 10 %

Year of AADT: 2022

Future AADT: 855

Year of Future AADT: 2042

Federal or State Definition Bridge: NH-Definition Bridge

National Highway System: Bridge does not carry NHS

Roadway Functional Class: Rural, Minor Collector

New Hampshire Bridge Tier: 4

Eligibility for the National Register of Historic Places: Possibly eligible for

Traffic Direction: 2-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: 5 Above Tolerable

Underclearances: N Not applicable (NBI)

Approach Alignment: 8 Equal Desirable Crit

Structural Evaluation: 7 Above Min Criteria

Channel/Channel Protection: 6 Bank Slumping

Waterway Adequacy: 7 Above Minimum

Bridge Scour Critical Status: 8 Stable Above Footing

Riprap Condition: Fair Condition

Debris Present: No Debris Present

Channel Notes: MODERATE SCOUR. MODERATE BANK EROSION. LIGHT DRIFT. SMALL VOIDS UNDER TOEWALLS. BROKEN SECTION OF SOUTH ABUTMENT TOE-WALL EXPOSING FOUNDING LEDGE AND VOIDED AREA AT THE OUTLET.

Bridge Inspection Report

NBI Structure Number: 005701730014200

Dalton 173/142

Element Details

| No. | Description | Material Notes and Condition Notes: |
|--------|------------------------------|---|
| 38 | Reinforced Concrete Slab | MINOR AND LIGHT SPALLS IN CURBS. FEW INSIGNIFICANT CRACKS. |
| └ 1130 | Cracking (RC and Other) | FEW INSIGNIFICANT CRACKS. |
| 215 | Reinforced Concrete Abutment | ABUTMENT EXTENSIONS AND WINGS MODERATE CRACKS IN TOE-WALLS; MODERATE VERTICAL CENTER LINE CRACKS IN ABUTMENTS. LARGE CRACK AT NW ABUTMENT TOE WALL. RIP-RAP WASHED OUT AT NE & SE WINGS. |
| └ 1130 | Cracking (RC and Other) | LARGE CRACKS IN TOE-WALLS; MODERATE VERTICAL CENTER LINE CRACKS IN ABUTMENTS. |
| 217 | Masonry Abutment | ORIGINAL STONE MASONRY ABUTMENTS |
| 330 | Metal Bridge Railing | ** W-Beam ** NESTED. MINOR RUST AT BASE OF FEW POSTS. DOWNSTREAM RAIL SLIGHTLY FLATTENED. |
| └ 1000 | Corrosion | MINOR RUST AT BASE OF FEW POSTS. |

Element States

| No. | Description | Quantity | Units | State 1 | State 2 | State 3 | State 4 |
|--------|------------------------------|----------|-------|---------|---------|---------|---------|
| 38 | Reinforced Concrete Slab | 538 | sq.ft | 99% | 1% | 0% | 0% |
| └ 1130 | Cracking (RC and Other) | 6 | sq.ft | 0% | 100% | 0% | 0% |
| 215 | Reinforced Concrete Abutment | 79 | ft | 82% | 15% | 3% | 0% |
| └ 1130 | Cracking (RC and Other) | 14 | ft | 0% | 86% | 14% | 0% |
| 217 | Masonry Abutment | 16 | ft | 100% | 0% | 0% | 0% |
| 330 | Metal Bridge Railing | 52 | ft | 90% | 10% | 0% | 0% |
| └ 1000 | Corrosion | 5 | ft | 0% | 100% | 0% | 0% |

Bridge Notes:

7/5/2018 - TINNED FINISHED EXPOSED SLAB. VARIOUS CONCRETE PATCHES IN SOUTH ABUTMENT STONE MASONRY AND NORTH ABUTMENT TOEWALLS. NEW W-BEAM RAIL BY BOBM.

Inspection Notes: 07/25/2024

HGS inspection comments -

W-BEAM RAIL: NEW RAIL 2016. MINOR DAMAGE. MINOR RUST ON FEW POST BASES.

SLAB/SUPER: EXPOSED TINNED FINISHED SLAB; COMPLETE SLAB POUR 7' IN FROM EXTERIOR OF US CURB AND 4' 8" IN FROM EXTERIOR OF DS CURB. FEW INSIGNIFICANT CRACKS. SLAB TOP PATCHED AT UPSTREAM AND DOWNSTREAM NEAR CURBS; CURBS REMAINED, MINOR TO LIGHT SPALLS IN CURBS.

SUB: VERTICAL CRACK IN CENTER OF EACH ABUTMENT WITH AN APPROXIMATE WIDTH OF 1/4" TO 1/16" TOE-WALL TO TOP. NW DS TOE WALL BROKEN; FEW PATCHES IN NORTH TOE WALL. MINOR SPALLS IN SEATS. STONE MASONRY PATCHED BY BOBM. RIP-RAP WASHED OUT AT NE & SE WINGS.

PICTURE: 565-58.

Bridge Inspection Report

NBI Structure Number: 005701730014200

Dalton 173/142

Previous Inspection Notes: 07/29/2022

SRB & TDC inspection comments -
 W-BEAM RAIL: NEW RAIL 2016. MINOR DAMAGE. MINOR RUST ON FEW POST BASES.
 SLAB/SUPER: EXPOSED TINNED FINISHED SLAB; COMPLETE SLAB POUR 7' IN FROM EXTERIOR OF US CURB AND 4' 8" IN FROM EXTERIOR OF DS CURB. FEW FINE CRACKS. SLAB TOP PATCHED AT UPSTREAM AND DOWNSTREAM NEAR CURBS; CURBS REMAINED; MINOR TO LIGHT SPALLS IN CURBS. HEAVY DIRT BUILD UP AT UPSTREAM CURB AND CURB LINE.
 SUB: VERTICAL CRACK IN CENTER OF EACH ABUTMENT WITH AN APPROXIMATE WIDTH OF 1/4" TO 1/16" TOE-WALL TO TOP. NW DS TOE WALL BROKEN; FEW PATCHES IN NORTH TOE WALL. MINOR SPALLS IN SEATS. STONE MASONRY PATCHED BY BOBM.

PICTURE: 541-92.

Approach and Roadway Notes:

PAVEMENT: NEW ASPHALT OVERLAY 2023. (7)
 W-BEAM APPROACH RAIL: LIGHT DAMAGE, RUST.

Inspection History

| Inspection Date | Inspector Initials | Inspection Type(s) Performed | | | | Major Element Ratings | | | | Red list | Posting |
|-----------------|--------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-----------------------|-------|-----|---------|--------------------------|------------------|
| | | NBI | Elem | FCM | U/W | Deck | Super | Sub | Culvert | | |
| 07/25/2024 | HGS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 7 | N | <input type="checkbox"/> | No Posting Req'd |
| 07/29/2022 | SRB | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 7 | N | <input type="checkbox"/> | No Posting Req'd |
| 07/01/2020 | TDC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 7 | N | <input type="checkbox"/> | No Posting Req'd |
| 07/05/2018 | TDC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 7 | N | <input type="checkbox"/> | No Posting Req'd |
| 07/13/2016 | TDC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 | 6 | 5 | N | <input type="checkbox"/> | No Posting Req'd |
| 07/14/2014 | MAH | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 | 6 | 5 | N | <input type="checkbox"/> | No Posting Req'd |
| 06/21/2012 | MAH | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 5 | N | <input type="checkbox"/> | No Posting Req'd |
| 06/22/2010 | WBL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 5 | N | <input type="checkbox"/> | No Posting Req'd |
| 06/12/2008 | BEP | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 5 | N | <input type="checkbox"/> | No Posting Req'd |
| 06/20/2006 | BEP | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 5 | N | <input type="checkbox"/> | No Posting Req'd |
| 04/22/2004 | WBL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 6 | N | <input type="checkbox"/> | No Posting Req'd |
| 05/09/2002 | BEP | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 6 | N | <input type="checkbox"/> | No Posting Req'd |
| 05/26/2000 | BEP | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 6 | N | <input type="checkbox"/> | No Posting Req'd |
| 08/11/1998 | BEP | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 6 | N | <input type="checkbox"/> | No Posting Req'd |
| 07/01/1996 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 6 | N | <input type="checkbox"/> | |
| 08/01/1994 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 6 | N | <input type="checkbox"/> | |
| 06/01/1992 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | 7 | 7 | N | <input type="checkbox"/> | |

| Inspection Frequency (mo.) | | | |
|----------------------------|------|-----|-----|
| NBI | Elem | FCM | U/W |
| 24 | 24 | N/A | N/A |